M3T-SSOP36B-450

Dummy IC for 36-pin 0.8-mm-pitch SSOP

User's Manual

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CAUTION If the requirements shown in the "CAUTION" sentences are ignored, the equipment may cause personal injury or damage to the products.

Renesas Tools Homepage http://www.renesas.com/en/tools

1. Outline

The M3T-SSOP36B-450 is an accessory tool product which connects the emulator probe and target system. Its dimensions are the same as those of 36-pin 0.8-mm-pitch SSOP (15.0 x 8.4 mm) IC package (36P2R-A).

2. Package Components (See Figure 1)

(1)	M3T-SSOP36B-450 main unit	x 1
(2)	Socket main unit	x 1
(3)	Socket frame (for 100P6S-A)	x 2
(4)	User's manual (This manual)	x 1
(5)	User's manual (Japanese)	x 1

3. Applicable Sockets

The M3T-SSOP36B-450 has been tested with the following IC sockets made by Matsushita Electric Works, Ltd. Be sure to use them.

Socket main unit + socket frame (1 set):
AXS69203601

Socket frame for repair (200 pieces):
AXS69303601

4. Specifications

Table 1 Specifications

Applicable package	36P2R-A (36-pin 0.8-mm-pitch SSOP)
Insertion/removal iterations of connector	50 times guaranteed

5. Usage (See Figure 2)

The M3T-SSOP36B-450 can be used for debugging and onboard evaluation in common by mounting the socket main unit on the target board.

(1) For debugging
Mount the socket main unit on the foot pattern of the target board. And mount the M3T-SSOP36B-450 and socket frame on it. Then attach the connector of the emulator.

(2) For onboard evaluation
Mount the socket main unit on the foot pattern of the target board. Mount an MCU with on-chip flash memory or one-time PROM on it. Then attach the socket frame on it.

Before using the M3T-SSOP36B-450, be sure to read "8. Precautions" on page 4.

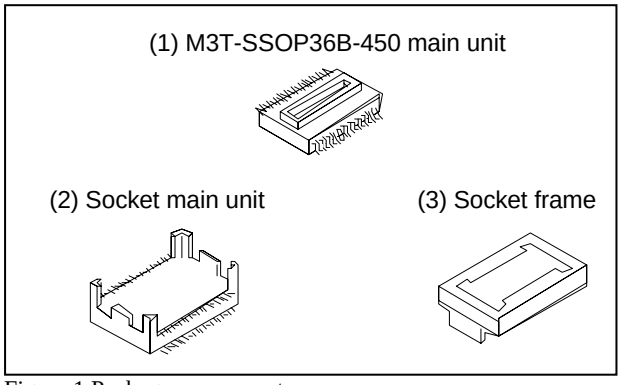


Figure 1 Package components

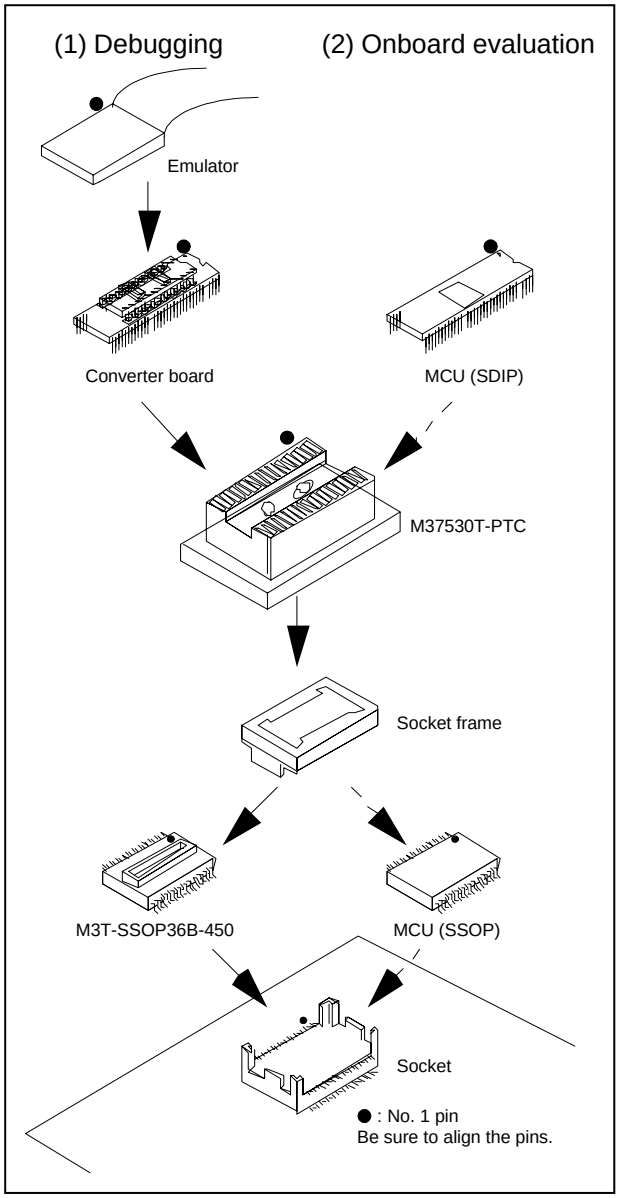
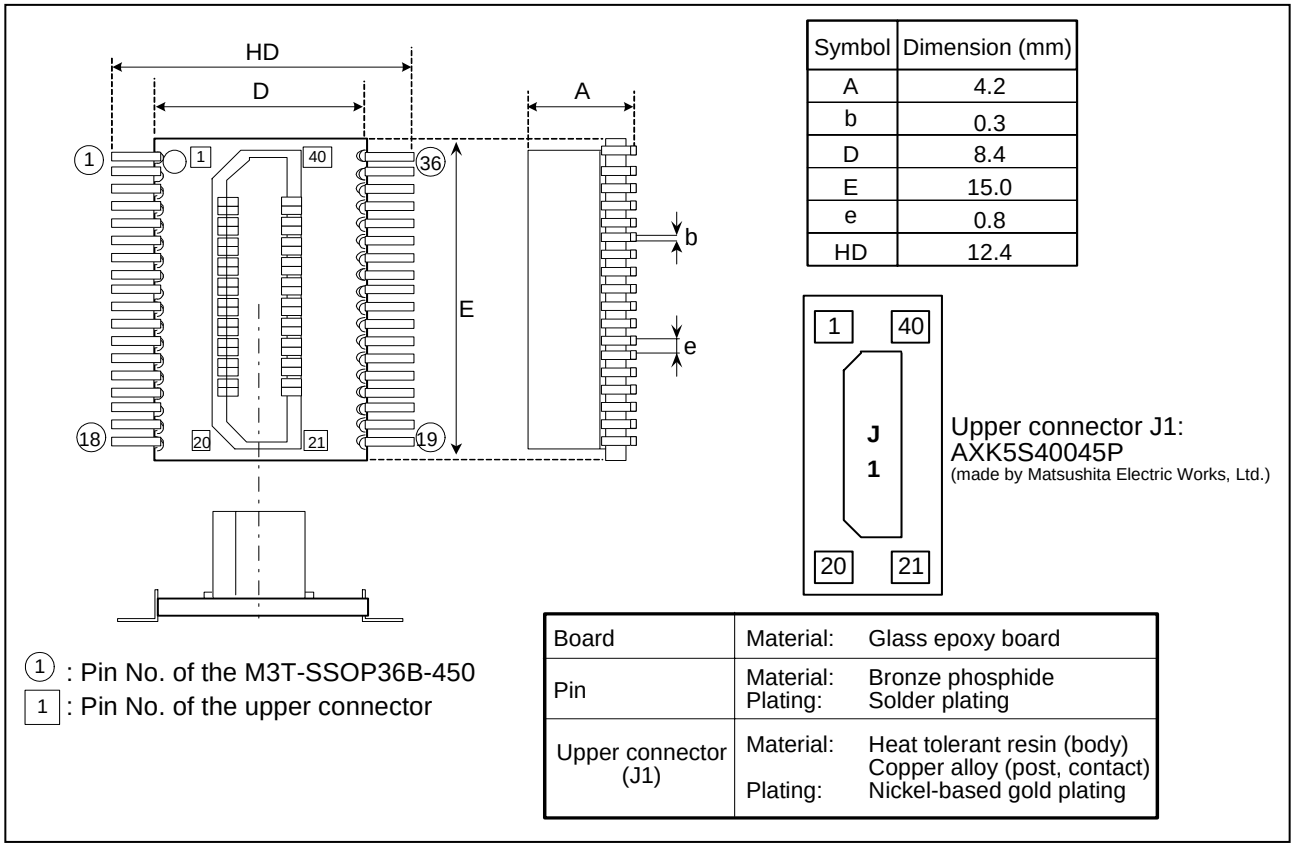


Figure 2 Usage of the M3T-SSOP36B-450

6. External Dimensions of the M3T-SSOP36B-450



Symbol	Dimension (mm)
A	4.2
b	0.3
D	8.4
E	15.0
e	0.8
HD	12.4

Board	Material:	Glass epoxy board
Pin	Material: Plating:	Bronze phosphide Solder plating
Upper connector (J1)	Material: Plating:	Heat tolerant resin (body) Copper alloy (post, contact) Nickel-based gold plating

Figure 3 External dimensions of the M3T-SSOP36B-450

7. Sample Foot Pattern of the Target System

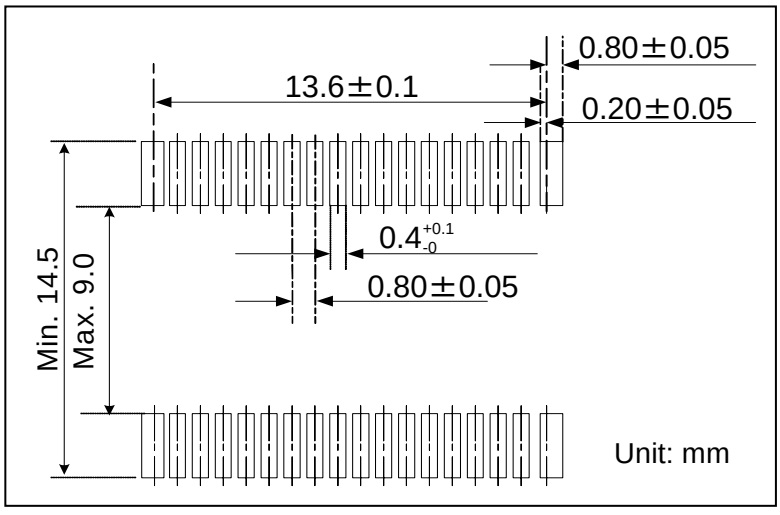


Figure 4 Dimensions of a target foot pattern (Quoted from the specifications of IC socket for SSOP by Matsushita Electric Works, Ltd.)

8. Precautions

⚠ CAUTION

Cautions to Be Taken for This Product:

- Do not solder the M3T-SSOP36B-450 main unit directly on a target board. Be sure to use the included socket.
- Before mounting the M3T-SSOP36B-450, be sure to check the pin positions.
- For soldering the socket and mounting the M3T-SSOP36B-450, refer to the supplementary document “Mounting the Socket Included with the M3T-SSOP36B-450” and “Notes on Handling the M3T-SSOP36B-450”.
- Do not apply unnecessary stress to the M3T-SSOP36B-450.
- Do not touch the pins of the M3T-SSOP36B-450.
- Store the M3T-SSOP36B-450 in the dedicated case.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- To remove the socket frame, use the dedicated tool AXY89406301 made by Matsushita Electric Works, Ltd. To purchase this product and the socket frame for repair, contact Matsushita Electric Works, Ltd.
  http://www.mew.co.jp/e-index.html
- For inquiries about this product or the contents of this manual, contact your local distributor.
  Renesas Tools Homepage http://www.renesas.com/en/tools

9. Correspondence of Connector J1

Table 2 Correspondence of the M3T-SSOP36B-450 and connector J1

Connector pin No.	Pin No. of M3T-SSOP36B-450	Connector pin No.	Pin No. of M3T-SSOP36B-450
J1-1	NC	J1-21	NC
J1-2	1	J1-22	19
J1-3	2	J1-23	20
J1-4	3	J1-24	21
J1-5	4	J1-25	22
J1-6	5	J1-26	23
J1-7	6	J1-27	24
J1-8	7	J1-28	25
J1-9	8	J1-29	26
J1-10	9	J1-30	27
J1-11	10	J1-31	28
J1-12	11	J1-32	29
J1-13	12	J1-33	30
J1-14	13	J1-34	31
J1-15	14	J1-35	32
J1-16	15	J1-36	33
J1-17	16	J1-37	34
J1-18	17	J1-38	35
J1-19	18	J1-39	36
J1-20	NC	J1-40	NC

(NC: No connection)